

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 1 of 5

Application Number	10/596,874
Filing Date	December 10, 2004
First Named Inventor	Carter, Chad J.
Confirmation Number	1770
Attorney Case Number	59402US004

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- 3,034,507	5/15/1962	McConnell et al.	
	A2	US- 3,072,122	1/08/1963	Rosenthal	
	A3	US- 3,123,212	3/03/1964	Taylor et al.	
	A4	US- 3,136,314	6/09/1964	Kravitz	
	A5	US- 3,221,740	12/07/1965	Rosenthal	
	A6	US- 3,246,647	04/19/1966	A.S. Taylor et al.	
	A7	US- 3,322,121	05/30/1967	O.H. Banker	
	A8	US- 3,466,131	9/09/1969	Arcudi	
	A9	US- 3,510,933	5/12/1970	Taylor et al.	
	A10	US- 3,512,520	05/19/1970	M.N. Cowan	
	A11	US- 3,596,660	8/03/1971	Melone	
	A12	US- 3,675,766	7/11/1972	Rosenthal	
	A13	US- 3,678,150	7/18/1972	Szumski et al.	
	A14	US- 3,688,764	9/05/1972	Reed et al.	
	A15	US- 3,905,371	9/16/1975	Stickl et al.	
	A16	US- 3,964,482	6/22/1976	Gerstel et al.	
	A17	US- 4,109,655	8/29/1978	Chacornac	
	A18	US- 4,237,906	12/09/1980	Havstad et al.	
	A19	US- 4,304,241	12/08/1981	Brennan	
	A20	US- 4,360,016	11/23/1982	Sarrine	
	A21	US- 4,453,926	6/12/1984	Galy	
	A22	US- 4,503,856	3/12/1985	Cornell et al.	
	A23	US- 4,517,978	5/21/1985	Levin et al.	
	A24	US- 4,637,403	1/20/1987	Garcia et al.	
	A25	US- 4,858,607	8/22/1989	Jordan et al.	
	A26	US- 4,869,249	9/26/1989	Crossman et al.	
	A27	US- 4,920,977	5/01/1990	Haynes	
	A28	US- 4,924,879	5/15/1990	O'Brien	

Examiner:*Date Considered:**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 2 of 5

Application Number	10/596,874
Filing Date	December 10, 2004
First Named Inventor	Carter, Chad J.
Confirmation Number	1770
Attorney Case Number	59402US004

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A29	US- 5,250,023	10/05/1993	Lee et al.	
	A30	US- 5,318,584	6/07/1994	Lange et al.	
	A31	US- 5,368,047	11/29/1994	Suzuki et al.	
	A32	US- 5,402,798	4/04/1995	Swierczek et al.	
	A33	US- 5,487,726	1/30/1996	Rabenau et al.	
	A34	US- 5,611,806	3/18/1997	Jang	
	A35	US- 5,879,326	3/09/1999	Godshall et al.	
	A36	US- 5,983,136	11/09/1999	Kamen	
	A37	US- 6,050,988	4/18/2000	Zuck	
	A38	US- 6,091,975	07/18/2000	Daddona et al.	
	A39	US- 6,132,755	10/17/2000	Eicher et al.	
	A40	US- 6,256,533	7/03/2001	Yuzhakov et al.	
	A41	US- 6,293,925	9/25/2001	Safabash et al.	
	A42	US- 6,313,612 B1	11/06/2001	Honda et al.	
	A43	US- 6,322,808	11/27/2001	Trautman et al.	
	A44	US- 6,334,856	1/01/2002	Allen et al.	
	A45	US- 6,379,324	4/30/2002	Gartstein et al.	
	A46	US- 6,440,096	8/27/2002	Lastovich et al.	
	A47	US- 6,454,755	9/24/2002	Godshall	
	A48	US- 6,503,231	1/07/2003	Praunzitz et al.	
	A49	US- 6,532,386	3/11/2003	Sun et al.	
	A50	US- 6,537,242 B1	03/25/2003	Palmer	
	A51	US- 6,589,202	7/08/2003	Powell	
	A52	US- 6,591,124	7/08/2003	Sherman et al.	
	A53	US- 6,595,947	7/22/2003	Mikszta et al.	
	A54	US- 6,603,998	8/05/2003	King et al.	
	A55	US- 6,623,457	9/23/2003	Rosenberg	
	A56	US- 6,713,291	3/30/2004	King et al.	

Examiner:*Date Considered:**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 3 of 5

Application Number	10/596,874
Filing Date	December 10, 2004
First Named Inventor	Carter, Chad J.
Confirmation Number	1770
Attorney Case Number	59402US004

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A57	US- 6,743,211	6/01/2004	Prausnitz et al.	
	A58	US- 6,797,276	9/28/2004	Glenn et al.	
	A59	US- 6,890,319	5/10/2005	Crocker	
	A60	US- 6,881,203 B2	04/19/2005	Delmore et al.	
	A61	US- 6,908,453	6/21/2005	Fleming et al.	
	A62	US- 6,931,277	8/16/2005	Yuzhakov et al.	
	A63	US- RE 25637	4/02/1963	Kravitz et al.	
	A64	US- 2002/032415 A1	03/14/2002	Trautman et al.	
	A65	US- 2002/091357 A1	07/11/2002	Trautman et al.	
	A66	US- 2002/123675 A1	09/05/2002	Trautman et al.	
	A67	US- 2002/188245 A1	12/12/2002	Martin et al.	
	A68	US- 2002/082543	6/27/2002	Park et al.	
	A69	US- 2002/087182	7/04/2002	Trautman et al.	
	A70	US- 2002/095134	7/18/2002	Pettis et al.	
	A71	US- 2002/111600	8/15/2002	Cormier et al.	
	A72	US- 2002/138049	9/26/2002	Allen et al.	
	A73	US- 2002/169416	11/14/2002	Gonnelli et al.	
	A74	US- 2002/177858	11/28/2002	Sherman et al.	
	A75	US- 2002/198509	12/26/2002	Mikszta et al.	
	A76	US- 2003/045837 A1	03/06/2003	Delmore et al.	
	A77	US- 2003/050602	3/13/2003	Pettis et al.	
	A78	US- 2003/083641	5/01/2003	Angel et al.	
	A79	US- 2003/135158	7/17/2003	Gonnelli et al.	
	A80	US- 2003/181863	9/25/2003	Ackley et al.	
	A81	US- 2003/199812	10/23/2003	Rosenberg	
	A82	US- 2003/208167	11/06/2003	Prausnitz et al.	
	A83	US- 2004/049150	3/11/2004	Dalton et al.	
	A84	US- 2004/077994	4/22/2004	Lastovich et al.	

Examiner:*Date Considered:**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 4 of 5

Application Number	10/596,874
Filing Date	December 10, 2004
First Named Inventor	Carter, Chad J.
Confirmation Number	1770
Attorney Case Number	59402US004

U.S. Patent Documents

Exam. Init.*	Cite No	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A85	US- 2004/138612	7/15/2004	Shermer et al.	
	A86	US- 2004/176732	9/09/2004	Frazier et al.	
	A87	US- 2004/181203	9/16/2004	Cormier et al.	
	A88	US- 2005/025778	2/03/2005	Cormier et al.	
	A89	US- 2005/027242	2/03/2005	Gabel et al.	
	A90	US- 2005/065463	3/24/2005	Tobinaga et al.	
	A91	US- 2005/065466	3/24/2005	Vedrine	
	A92	US- 2005/065472	3/24/2005	Cindrich et al.	
	A93	US- 2005/096586	5/05/2005	Trautman et al.	
	A94	US- 2005/106226	5/19/2005	Cormier et al.	
	A95	US- 2005/137525	6/23/2005	Wang et al.	
	A96	US- 2005/261631 A1	11/24/2005	Clarke et al.	

Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
	B1	EP	0 407 063 A1	01/09/1991	Connaught Laboratories Ltd.		
	B2	GB	1080986	8/31/1967	Barber		
	B3	GB	2064329	6/17/1981	Carpenter et al.		
	B4	GB	2221394	2/07/1990	Ellertson		
	B5	WO	96/10630	4/11/1996	Trimmer et al.		
	B6	WO	00/74766 A1	12/14/2000	Procter & Gamble		
	B7	WO	01/36037 A2	05/25/2001	Velcro Industries		
	B8	WO	02/100476 A2	12/19/2002	Becton, Dickinson & Co.		
	B9	WO	05/082596 A1	09/09/2005	3M IPCo.		
	B10	WO	05/51455	6/09/2005	Cornier et al.		
	B11	WO	05/51476	6/09/2005	Finnin et al.		
	B12	WO	05/65765	7/21/2005	Carter		

*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 5 of 5

Application Number	10/596,874
Filing Date	December 10, 2004
First Named Inventor	Carter, Chad J.
Confirmation Number	1770
Attorney Case Number	59402US004

OTHER DOCUMENTS

Exam. Int.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1	Henry, Sebastien et al., "Microfabricated Microneedles: A Novel Approach to Transdermal Drug Delivery", <u>Journal of Pharmaceutical Sciences</u> , Vol. 87, No. 8, August 1998, pp 922-925	
	C2	McAllister, Devin V. et al., "Microfabricated Microneedles for Gene and Drug Delivery", <u>Annual Rev. Biomed. Eng.</u> 2000 ; pp 289-313	
	C3	Kaushik, Shilpa et al., "Lack of Pain Associated with Microfabricated Microneedles" <u>Anesthesia Analgesia</u> ; 2001;92:502-4; pp 502-504	
	C4	McAllister, D.V. et al., "Solid and Hollow Microneedles for Transdermal Protein Delivery", <u>Proceed. Int'l Symp. Control Rel. Bioact. Mater.</u> , 26 (Revised July 1999) Controlled Release Society, Inc. pp 192-193	
	C5	Daddona, Peter E., "Recent Advances in Peptide, Protein and Macromolecule Drug Delivery", <u>Current Opinion in Drug Discovery & Development</u> ; 1999 2(2); pp 168-171	

Examiner:*Date Considered:**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.